

AMENDMENT TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently amended) In a combination for providing signals at predetermined positions in a patient,  
a vest constructed to be worn by the patient ~~when~~ regardless of whether the patient has a small, medium or large size,  
a plurality of electrodes disposed at predetermined positions in the vest corresponding to said predetermined positions in the patient,  
the electrodes providing signals indicating characteristics of the heart of the patient having any individual one of the small, medium and large sizes, the predetermined positions of the electrodes for the patient of each individual one of the small, medium and large sizes being different from the predetermined positions of the electrodes for the patient having the other ones of the small, medium and large sizes; and  
amplifiers responsive to the signals on the electrodes at the predetermined positions in the vest for the patient having the individual one of the small, medium and large sizes for providing signals indicating characteristics of the patient's heart at the predetermined positions in the patient below a level providing measurable interference from noise and with characteristics corresponding to the characteristics of the signals at the electrodes at the predetermined positions in the patient, each amplifier being directly connected to a respective one of said electrodes.

2. (Previously presented) In a combination as set forth in claim 1 wherein the electrodes are positioned at the predetermined positions in the vest to measure  $V_1$ - $V_6$  positions in the patient for the individual one of the small, medium and large sizes of the patient and wherein

the amplifiers provide the signals at the predetermined ones of the  $V_1$ - $V_6$  positions of the patient's heart when the patient has the individual one of the small, medium and large sizes and wherein

the electrode for each individual one of the  $V_1$ - $V_6$  predetermined positions in the patient's heart is the same for the patient having the individual one of the small, medium and large sizes.

3. (Previously presented) In a combination as set forth in claim 2 wherein the electrodes measure the predetermined ones of the  $V_1$ - $V_6$  positions in the patient when the patient has the individual one of the small, medium and large sizes, and wherein

the amplifiers have a unity gain and provide the signals indicating the characteristics of the patient at the predetermined ones of the  $V_1$ - $V_6$  positions for the patient when the patient has the individual one of the small, medium and large sizes and wherein

the electrodes are disposed on the vest in rows and columns and wherein each of the electrodes in the vest is disposed in the vest in an individual one of the columns relative to the disposition of the other electrodes in the vest when the patient has the individual one of the small, medium and large sizes,

4. (Previously presented) In a combination as set forth in claim 1 wherein the positions in the vest are disposed in rows and columns and wherein each of the amplifiers provides indications of the heart in an individual one of the rows at an individual one of the columns when the patient has the individual one of the small, medium and large sizes.

5. (Previously presented) In a combination as set forth in claim 1 wherein an inflator is associated with the electrodes at the predetermined positions to apply pressures of the electrodes against the body of the patient of at least a particular value to facilitate a production by the patient of signals indicating the characteristics of the patient at the predetermined positions when the patient has the individual one of the small, medium and large sizes.

6. (Previously presented) In a combination as set forth in claim 2 wherein each of the electrodes measures an individual one of the  $V_1$ - $V_6$  positions for the patient when the patient has any individual one of the small, medium and large sizes and wherein

the amplifiers have a unity gain and provide signals indicating the characteristics of the patient's heart at the individual ones of the  $V_1$ - $V_6$  positions when the patient has the individual one of the small, medium and large sizes and wherein

the positions in the vest are disposed in rows and columns and wherein each of the amplifiers provides an indication of the heart in an individual one of the rows at an individual one of the columns when the patient has the individual one of the small, medium and large sizes and wherein

inflatable members are associated with the electrodes at the predetermined positions to apply pressures of the electrodes against the body of the patient of at least a particular value to facilitate the production by the patient of signals indicating the characteristics of the patient's heart at the predetermined positions.

7. (Currently amended) In combination for providing signal indications at a plurality of predetermined positions in a patient,

a vest having a plurality of predetermined positions, each position corresponding to an individual one of said plurality of predetermined positions in the patient for a patient having an individual one of a plurality of different sizes and constructed to be disposed on a patient's body for ambulatory movements of the patient while measurements are being made at individual positions in the patient of the

characteristics of the patient ~~when the patient has any individual one of a plurality of different sizes,~~

a plurality of electrodes each constructed to be disposed on the vest at an individual one of the positions in the vest for providing an indication at the corresponding individual one of the positions in the patient of the characteristics of the patient at that position for the patient having ~~of~~ an individual one of the different sizes,

each position in the plurality of positions in the patient corresponding to ~~being provided at~~ an individual one of the positions in the vest to receive an individual one of the electrodes for the patient of the different sizes, and

a plurality of amplifiers, each adapted to be directly connected to an individual one of the electrodes to receive signals from the individual one of the electrodes for the patient of the individual one of the different sizes, each of the amplifiers having a unity gain.

8. (Previously Presented) In a combination as set forth in claim 7 including an electrode assembly disposed on the vest and including a plurality of electrodes each adapted to be connected to an individual one of the amplifiers to provide the signals to the individual one of the amplifiers regardless of the size of the patient.

9. (Previously Presented) In a combination as set forth in claim 7 wherein the vest is provided with rows and columns of positions and wherein the electrodes are disposed in individual ones of the positions depending upon the individual one of the different sizes of the patient, and wherein

each amplifier is adapted to be connected to an individual one of the electrodes, when the patient has the individual one of the different sizes, to provide signals representing individual characteristics of the patient's heart at the individual one of the positions in the patient.

10. (Previously Presented) In a combination as set forth in claim 7 wherein the positions on the vest are disposed in rows and columns and wherein each amplifier provides signals in an individual one of the columns depending upon the individual one of the different sizes of the patient and wherein each amplifier provides an indication of the signal at an individual one of  $V_1$ - $V_6$  positions in the patient when the patient has the individual one of the different sizes.

11. (Previously Presented) In a combination as set forth in claim 7 wherein when the patient has the individual one of the different sizes, the electrodes for the patient are positioned on the vest so that at most only one electrode is disposed in each column of the positions on the vest.

12. (Previously presented) In a combination as set forth in claim 7 wherein each electrode is disposed on the vest and is associated with an individual one of a plurality of inflators to apply a pressure against the electrode at least equal to a particular value.

13. (Previously Presented) In a combination as set forth in claim 8 wherein the electrodes are disposed in rows and columns and wherein each amplifier is adapted to be connected to an individual one of the electrodes, when the patient has the individual one of the different sizes, to provide signals representing the individual one of the different positions in the patient, and wherein

each amplifier provides signals in an individual one of the columns when the patient has the individual one of the different sizes and wherein

each amplifier provides an indication of an individual one of  $V_1$ - $V_6$  positions in the patient for any individual one of the different sizes and wherein

when the patient has the individual one of the different sizes, the electrodes for the patient are positioned on the vest so that at most only one of the electrodes is

disposed in each column for the individual one of the different sizes of the patient, and wherein

an inflator is associated with each individual one of the electrodes to apply at least a particular pressure against the electrode.

14. (Currently amended) In a combination for providing signals at different positions in a patient,

a vest having a plurality of predetermined positions for determining the characteristics of patients having ~~the patient for~~ different ones of a plurality of patient sizes, and

a plurality of electrodes, each adapted to be connected to the vest at an individual one of the positions in the vest, and

a plurality of unity-gain amplifiers, each providing signals indicating characteristics of the patient's heart at an individual one of the positions when the patient has any individual one of the different sizes in the plurality, and

inflatable members for inflating the vest with the vest disposed on the patient to press the electrodes against the patient for enhancing the passage of the signals from the patient to the electrodes.

15. (Previously presented) In a combination as set forth in claim 14,  
a member carried by the patient and having a plurality of terminals for receiving the signals from the electrodes.

16. (Previously presented) In a combination as set forth in claim 14 wherein  
the amplifiers are disposed on the vest and are adapted to be connected to the electrodes and wherein

the amplifiers provide for the production of signals from the patient at the electrodes, even when the patient is ambulatory, without materially affecting the characteristics of the signals from the patient and wherein

the amplifiers are constructed to provide signals from the electrodes without materially affecting the characteristics of the signals from the electrodes and to provide the signals from the electrodes at a noise level below that affecting the characteristics of the signals from the electrodes, even when the patient is ambulatory.

17. (Previously presented) In a combination as set forth in claim 14 wherein the vest has a plurality of positions, dependent upon the individual one of the patient sizes, for receiving the electrodes to measure the characteristics of the patient at positions  $V_1$ - $V_6$  in the patient.

18. (Previously presented) In a combination as set forth in claim 17 wherein the electrodes are adapted to be attached to the vest to provide for the production of signals at the electrodes, even when the patient is ambulatory, without affecting the characteristics of the signals produced at the amplifiers and without the production from the amplifiers of noise at a level affecting the characteristics of the signals from the electrodes, and wherein the vest has a plurality of positions, dependent upon the size of the patient, for receiving the electrodes to measure the characteristics of the patient at the positions  $V_1$ - $V_6$  on the patient.

19. (Currently amended) In a combination for providing signals at different positions in a patient of small, medium or large size, a vest constructed to be worn by the patient when the patient has any individual one of the small, medium or large size, a plurality of predetermined positions on the vest, the positions being disposed in rows and columns and corresponding to said different positions in the patient, electrodes disposed in the vest at particular ones of the positions in the vest, the particular ones of the positions being dependent upon the individual one of the small, medium or large size of the patient wearing the vest,

there being at most only one electrode in each column in the vest for each individual one of the small, medium and large sizes of the patient, wherein

each of the electrodes is disposed in the vest adjacent an individual one of  $V_1$ - $V_6$  positions regardless of the individual one of the small, medium or large size of the patient.

20. (Previously presented) In a combination as set forth in claim 19, a plurality of unity-gain amplifiers each responsive to the signals from the electrode in an individual one of the columns, different from the other columns in which the electrodes are disposed, for receiving the signals in the patient and for providing signals from the amplifiers with characteristics corresponding to the characteristics of the signals on the electrodes and at a noise level not affecting the characteristics of the signals from the electrodes.

21. (Previously presented) In a combination as set forth in claim 20 wherein the amplifiers are adapted to be attached to the vest in a closely coupled relationship to the vest to be carried by the patient in an ambulatory relationship of the patient.

22. (Previously presented) In a combination as set forth in claim 20, wherein the amplifiers are constructed, and are adapted to be connected to the electrodes, to provide signals of stable characteristics from the electrodes regardless of the individual one of the small, medium or large size of the patient and even while the patient is ambulatory.

23. (Previously presented) In a combination as set forth in claim 20 wherein each of the amplifiers is constructed to reduce noise in the signals from the electrode receiving the signals from the patient to a level below that affecting the characteristics of the signals from the electrode, and to provide the same characteristics as the characteristics of the signals in the electrode, even when the patient is ambulatory.



24. (Previously presented) In a combination as set forth in claim 22 wherein each of the amplifiers is constructed to reduce noise in the signals from the electrode receiving the signals from the patient to a level below that affecting the characteristics of the signals from the electrode and to produce signals with the same characteristics as the characteristics of the signals from the electrode, even when the patient is ambulatory.
25. (Previously presented) In a combination as set forth in claim 19, an inflator for inflating the vest against the patient's body to provide an adjustable pressure of the electrodes against the patient's body.
26. (Previously presented) In a combination as set forth in claim 20 an inflator for inflating the vest against the patient's body to provide at least a particular pressure of each electrode against the patient's body.
27. (Previously presented) In a combination as set forth in claim 19 wherein an inflator is individually inflatable against the patient's body at a position of an individual one of the electrodes to provide at least a particular pressure between the individual one of the electrodes and the patient's body.
28. (Previously presented) In a combination as set forth in claim 23 wherein an inflator associated with each individual one of the electrodes is inflatable against the electrode to provide, between the electrode and the patient's body, a pressure which is at least a particular value.
29. (Previously presented) In a combination as set forth in claim 23, including a plurality of amplifiers each responsive to the signals from an individual one of the electrodes, regardless of the patient's small, medium or large size, for amplifying the signals at the electrode to reduce noise to a level below that affecting the characteristics of the signals from the electrode, and to provide the signals from the

amplifier with characteristics corresponding to the characteristics of the patient's heartbeat signals, even when the patient is ambulatory.

30. (Previously presented) In a combination as set forth in claim 24  
a plurality of amplifiers each responsive to the signals from an individual one of the electrodes, regardless of the patient's small, medium or large size, for amplifying the signals in the electrode to reduce noise to a level below that affecting the characteristics of the signals from the electrode, and to provide the signals from the amplifier with characteristics corresponding to the characteristics of the patient's heartbeat signals, even when the patient is ambulatory.

31. (Previously presented) In a combination as set forth in claim 20,  
each of the electrodes is individually inflatable against the patient's body to provide, between the electrode and the patient's body, a pressure which at least equals a particular value.

32. (Currently amended) In a combination for providing signals at predetermined ~~different~~ positions in a patient for patients of different size,  
a vest constructed to be worn by the patient when the patient has any individual one of a plurality of different sizes,  
a plurality of predetermined positions disposed on the vest in rows and columns in an upper right portion of the vest and in rows and columns in a lower left portion of the vest, each of said predetermined positions on the vest corresponding to a patient of a particular size, and

electrodes disposed on the vest in positions in the upper right portion of the vest and in positions in the lower left portion of the vest, the positions of the electrodes in the upper right portion of the vest and the lower left portion of the vest being dependent upon the individual one of the different sizes of the patient.

33. (Previously presented) In a combination as set forth in claim 32 wherein  $V_1$  and  $V_2$  electrodes are disposed in the upper right portion of the vest regardless of the size of the patient and wherein

the  $V_1$  and  $V_2$  electrodes in the upper right portion of the vest are symmetrically disposed relative to the patient's sternum for each individual one of the different sizes of the patient and wherein

$V_4$  and  $V_5$  and  $V_6$  electrodes are disposed in positions in the lower left portion of the vest for each individual one of the different sizes of the patient.

34. (Previously presented) In a combination as set forth in claim 32 wherein  $V_4$ ,  $V_5$  and  $V_6$  electrodes are disposed in spaced positions in an individual one of the rows in the lower left portion of the vest when the patient has the individual one of the different sizes, and wherein

the  $V_4$ ,  $V_5$  and  $V_6$  electrodes are disposed in individual columns of the vest when the patient has the individual one of the different sizes of the patient.

35. (Previously presented) In a combination as set forth in claim 33 wherein a  $V_3$  electrode is disposed in either the upper right portion of the vest or the lower left portion of the vest dependent upon the individual one of the different sizes of the patient.

36. (Previously presented) In a combination as set forth in claim 35 wherein  $V_1$  and  $V_2$  electrodes are in positions in the upper right portion of the vest in the same horizontal row on opposite sides of the sternum in a symmetrical relationship with the sternum when the patient has the individual one of the different sizes, and wherein

$V_4$ ,  $V_5$  and  $V_6$  electrodes are in positions in the lower left portion of the vest in the same horizontal row when the patient has the individual one of the different sizes.

37. (Previously presented) In a combination as set forth in claim 32 wherein there are first two (2) electrodes in the positions in the upper right portion of the vest and these electrodes are in the same row in a symmetrical relationship with the sternum of the patient for the different sizes of the patient and wherein

a third electrode is in either the upper right portion of the vest or the lower left portion of the vest in a row and column different from the rows and columns of the first two electrodes, the positioning of the third electrode being dependent upon the individual one of the different sizes of the patient and wherein

there are three additional electrodes in positions in the lower left portion of the vest and all of these are in the same horizontal row but in a row different from the rows locating the first, second and third electrodes and in columns different from the columns of the first, second and third electrodes and from one another, the positioning of the three additional electrodes being dependent upon the individual one of the different sizes of the patient.

38. (Previously presented) In a combination as set forth in claim 32 wherein positions are provided in the upper right portion of the vest and in the lower left portion of the vest to provide for the disposition of electrodes in particular ones of the positions for the individual ones of the different sizes of the patient and wherein

each of the electrodes is in a different column than the other electrodes for each individual one of the different sizes of the patient.

39. (Previously presented) In a combination as set forth in claim 38 wherein the upper right portion of the vest overlaps the lower left portion of the vest and wherein

at least two (2) electrodes are disposed in positions in the upper right portion of the vest for the individual ones of the different sizes of the patient and wherein

three electrodes are disposed in positions in the lower left portion of the vest for the individual ones of the different sizes of the patient and wherein

a sixth electrode is disposed in either the upper right portion of the vest or the lower left portion of the vest for the individual ones of the different sizes of the patient.

40. (Currently amended) In a combination for providing signals at different positions in a patient's heart,

a vest constructed to be worn by the patient for any one of a plurality of different sizes of the patient,

a first plurality of positions in the upper right portion of the vest and a second plurality of positions in the lower left portion of the vest,

the positions in the upper right portion and the lower left portion of the vest defining rows and columns,

electrodes disposed in ~~predetermined particular~~ ones of the positions in the upper right portion and the lower left portion of the vest depending upon the size of the patient for providing signals indicative of the characteristics of the patient's heart at the particular positions for any individual one of the different sizes of the patient,

each of the electrodes for patients of individual ones of the different sizes being disposed in columns different from the other electrodes for that particular ~~the patients of different sizes~~.

41. (Previously presented) In a combination as set forth in claim 40,  
the electrodes being disposed relative to the vest and being operative to produce signals indicative of V<sub>1</sub>-V<sub>6</sub> positions for the patient of the individual one of the different sizes of the patient.

Claims 42. and 43. (Cancelled.)

44. (Currently amended) In a combination for providing signals at different positions in a patient, the patient having any individual one of a plurality of sizes,

a vest constructed to be worn by the patient having any individual one of the plurality of sizes,

a plurality of predetermined positions in the vest, each position corresponding to a patient of different size,

a plurality of electrodes each adapted to be disposed in an individual one of the plurality of predetermined positions and operative to provide signals indicative of the characteristics of the heart at this position for an individual one of the plurality of sizes of the patient, and

a plurality of unity-gain amplifiers each adapted to be connected to an individual one of the plurality of electrodes to amplify the signals from the individual one of the plurality of electrodes without changing in the amplifiers the characteristics of the signals on the electrode, the amplifiers being supported by the vest to facilitate ambulatory movement of the patient with the vest, and

each of the electrodes for any individual one of the plurality of sizes of the patient being disposed in a column different from the columns for disposing the other electrodes for the individual one of the plurality of sizes of the patient.

45. (Previously presented) In a combination as set forth in claim 44, the amplifiers being constructed to amplify the signals in the electrodes while maintaining the characteristics of the signals in the electrodes, and to reduce noise in the amplified signals to a level below that affecting the characteristics of the amplified signals, during the ambulatory movements of the patient.

46. (Previously presented) In a combination as set forth in claim 44 wherein electrodes disposed in first positions in the vest provide for signals indicative of first problems in the patient's heart and electrodes disposed in second positions in the vest provide second signals indicative of second problems in the patient's heart, the first positions in the vest being disposed in the front of the vest and the second positions being disposed in the back of the vest the second problems occurring less frequently than the first problems.

47. (Previously presented) In a combination as set forth in claim 46 wherein the amplifiers are constructed to provide signals indicative of the characteristics of the heart defined by the positions of the electrodes while substantially eliminating noise resulting in the amplifiers from any ambulatory movements of the patient.

48. (Previously presented) In a combination as set forth in claim 44, the amplifiers being constructed to maintain the characteristics of the signals from the electrodes, and to reduce noise in the amplified signals to a level below that affecting the characteristics of the signals from the electrodes, during the ambulatory movements of the patient,

first electrodes in the plurality being disposed in first positions in the vest to provide signals indicative of relatively common problems in the patient's heart and second electrodes in the plurality being disposed in second positions in the vest to provide signals indicative of relatively uncommon problems in the patient's heart, the first positions in the vest being disposed in the front of the vest and the second positions being disposed in the back of the vest.

49. (Currently amended) In a combination for providing signals at different positions in a patient's heart,

a vest constructed to be worn by the patient for any individual one of a plurality of different sizes of the patient,

a plurality of predetermined positions in the vest, each position corresponding to a patient of different size,

a plurality of electrodes each disposed in an individual one of the positions in the vest, and operative to provide signals indicative of the characteristics of the patient's heart at the individual one of the positions, for the individual one of the different sizes of the patient, and

a plurality of amplifiers each adapted to be connected to an individual one of the electrodes to amplify the signals from the individual one of the electrodes, the

amplifiers being constructed to provide signals identifying the characteristics of the patient's heart dependent upon the positions of the electrodes, while substantially reducing noise below a level affecting the characteristics of the identifying signals, during ambulatory movements of the patient.

50. (Previously presented) In a combination as set forth in claim 49, each of the electrodes being disposed in the vest at an individual one of the different position in the vest for each individual one of the different sizes of the patient

51. (Previously presented) In a combination as set forth in claim 49, each of the electrodes being adapted to be disposed in a coupled relationship with the patient's skin to apply pressure against the patient's skin with a value greater than a particular value for any one of the different sizes of the patient.

52. (Previously presented) In a combination as set forth in claim 50, each of the electrodes being adapted to be disposed in a coupled relationship to the patient's skin to apply a pressure to the patient's skin at a value greater than a particular value for patients of any one of the different sizes for producing signals indicative of the characteristics of the patient's heart at the position of the electrode.

53. (Previously presented) In a combination as set forth in claim 49, each of the electrodes being adapted to be disposed in the vest at an individual one of the positions in the vest for patients of any individual one of the different sizes of the patient to obtain signals indicative of the characteristics of the heart of the patient at the individual one of the different positions.

54. (Previously presented) In a combination as set forth in claim 50, each of the electrodes being adapted to be disposed in a coupled relationship with the patient's skin to apply a pressure against the patient's skin of at least a particular value,



each of the electrodes being disposed in the vest at an individual one of the positions in the vest for patients for any individual one of the different sizes to obtain signals indicative of the characteristics of the patient of the different sizes.

Claims 55-77 (Cancelled.)

78. (Currently amended) In a combination for providing signals at different positions in a patient's heart

a vest constructed to be worn by the patient when the patient has any individual one of a small, medium, or large size,

a first portion of the vest being provided with a plurality of rows and columns,

a plurality of electrodes including  $V_1$  and  $V_2$  electrodes disposed in predetermined positions in the first portion of the vest when the patient has any individual one of the small, medium and large sizes,

the  $V_1$  and  $V_2$  electrodes being disposed in a common row individual to the patient of the small, medium or large size,

the columnar positions of the  $V_1$  and  $V_2$  electrodes in the row being dependent upon whether the patient has ~~the individual one of~~ the small, medium or and large size ~~sizes of the patient~~.

79. (Previously presented) In a combination as set forth in claim 78,  
the  $V_1$  and  $V_2$  electrodes being positioned on opposite sides of the patient's sternum when the patient has the individual one of the small, medium and large sizes.

80. (Previously presented) In a combination as set forth in claim 78,  
the columnar distance between the electrodes in the row common to the  $V_1$  and  $V_2$  electrodes being dependent upon the size of the patient.

81. (Previously presented) In a combination as set forth in claim 79,  
the columnar distance between the  $V_1$  and  $V_2$  electrodes in the row  
common to the electrodes being dependent upon the individual one of the sizes of the  
patient.
82. (Previously presented) In a combination as set forth in claim 78,  
the columnar distance between the  $V_1$  and  $V_2$  electrodes being greater for  
the patient of large size than for the patient of small and medium sizes.
83. (Previously presented) In a combination as set forth in claim 78,  
the first portion of the vest extending on opposite sides of the patient's  
sternum and having a plurality of columns and a plurality of rows.
84. (Previously presented) In a combination as set forth in claim 79,  
the columnar distance between the  $V_1$  and  $V_2$  electrodes in the row  
common to the electrodes being dependent upon the size of the patient and  
the columnar distance between the  $V_1$  and  $V_2$  electrodes being greater for  
the patient of large size than for the patient of small and medium sizes.
85. (Previously presented) In a combination as set forth in claim 78,  
the columnar distance between the  $V_1$  and  $V_2$  electrodes being greater for  
the patient of large size than for the patient of small and medium sizes.
86. (Previously presented) In a combination as set forth in claim 78,  
a plurality of unity-gain amplifiers each adapted to be connected to an  
individual one of the electrodes.
87. (Currently amended) In a combination for providing signals at different  
positions in a patient's heart,  
a vest constructed to be worn by the patient when the patient has any  
individual one of a small, medium or large size,

a first portion of the vest being provided with a plurality of rows and a plurality of columns,

a plurality of electrodes including V<sub>4</sub>, V<sub>5</sub> and V<sub>6</sub> electrodes being disposed in predetermined positions in the first portion of the vest for the patient having an individual one of the small, medium and large sizes,

the V<sub>4</sub>, V<sub>5</sub> and V<sub>6</sub> electrodes being disposed in the first portion of the vest in a common row which is dependent upon whether the patient has ~~the individual one of~~ the small, medium or and large size ~~sizes of the patient~~.

88. (Previously presented) In a combination as set forth in claim 87,  
the columnar positions of the V<sub>4</sub>, V<sub>5</sub> and V<sub>6</sub> electrodes being dependent upon the individual one of the small, medium and large sizes of the patient.

89. (Previously presented) In a combination as set forth in claim 87,  
the first portion of the vest having three (3) rows and eight (8) columns.

90. (Previously presented) In a combination as set forth in claim 87,  
a second portion of the vest having three (3) rows and five (5) columns,  
the columnar distance between a pair of V<sub>1</sub> and V<sub>2</sub> electrodes disposed in the second portion of the vest, being dependent upon the individual one of the small, medium and large sizes of the patient.

91. (Previously presented) In a combination as set forth in claim 87,  
a plurality of unity-gain amplifiers each adapted to be connected to an individual one of the electrodes.

92. (Currently amended) Apparatus for providing signals at specified positions in a patient's heart regardless of whether the patient has a small, medium or large size, the apparatus comprising:

a vest constructed to be worn by the patient;

a plurality of electrodes; and

a plurality of predetermined positions in the vest, each position corresponding to a particular anatomical location on the patients' body for a patient having an individual one of the small, medium or large sizes, and being provided with characteristics to receive an individual one of the electrodes, wherein

the plurality of the specified positions are disposed such that a first arrangement of the electrodes on the vest provides signals at said specified positions in the patient's heart when the patient has a small size, a second arrangement of the electrodes on the vest provides signals at said specified positions in the patient's heart when the patient has a medium size, and a third arrangement of the electrodes on the vest provides signals at said specified positions in the patient's heart when the patient has a large size and wherein the first, second and third arrangements are different from one another.

93. (Previously presented) The apparatus of claim 92 wherein the plurality of electrodes comprises  $V_1 - V_6$  electrodes and wherein said specified positions in the vest receive the  $V_1 - V_6$  electrodes.
94. (Previously presented) The apparatus of claim 92 further comprising unity-gain amplifiers responsive to the signals on the electrodes for providing signals having characteristics corresponding to the characteristics of the signals on the electrodes.
95. (Previously presented) The apparatus of claim 92 wherein the signals from the unity-gain amplifiers are not materially affected by noise that may result from ambulation of the patient.
96. (Previously presented) The apparatus of claim 94 wherein the amplifiers provide an amplification of the signals introduced to the amplifiers without the passage of high frequency noise through the amplifiers in an amplitude materially affecting the characteristics of the signals from the electrodes.

97. (Previously presented) The apparatus of claim 96 wherein the amplifiers provide an amplification of the signals introduced to the amplifiers from the electrodes without any material change in the phase or amplitude characteristics of the signals.

98. (Previously presented) The apparatus of claim 97 wherein each amplifier receives a signal from an individual one of the electrodes; and each amplifier is supported by the vest to facilitate ambulatory movement of the patient with the vest.

99. (Previously presented) The apparatus of claim 92 wherein the plurality of positions on the vest are disposed in rows and columns.

100. (Previously presented) The apparatus of claim 99 wherein the electrodes are positioned on the vest so that at most only one electrode is disposed in each column regardless of the size of the patient.

101. (Previously presented) The apparatus of claim 92 wherein each electrode is disposed on the vest so as to provide a pressure against the patient at least equal to a particular value.

102. (Previously presented) The apparatus of claim 92 wherein the plurality of positions comprises a first plurality of positions disposed in rows and columns in an upper right portion of the vest and a second plurality of positions disposed in rows and columns in a lower left portion of the vest, and wherein the electrodes are disposed on the vest in positions in both the upper right and lower left portions of the vest.

103. (Previously presented) The apparatus of claim 102 wherein  $V_1$  and  $V_2$  electrodes are disposed in the upper right portion of the vest regardless of the size of the patient; and

the  $V_1$  and  $V_2$  electrodes in the upper right portion of the vest are symmetrically disposed relative to the patient's sternum.

104. (Previously presented) The apparatus of claim 103 wherein  $V_4$  and  $V_5$  and  $V_6$  electrodes are disposed in positions in an individual one of the rows in the lower left portion of the vest, regardless of the size of the patient.

105. (Previously presented) The apparatus of claim 102 wherein a  $V_3$  electrode is disposed in either the upper right portion or the lower left portion of the vest dependent upon the size of the patient.

106. (Previously presented) The apparatus of claim 102 wherein  $V_1$  and  $V_2$  electrodes are in positions in the upper right portion of the vest in a horizontal row on opposite sides of the sternum in a symmetrical relationship with the sternum regardless of the size of the patient; and

$V_4$ ,  $V_5$  and  $V_6$  electrodes are in positions in the lower left portion of the vest in a horizontal row different from the horizontal row of the  $V_1$  and  $V_2$  electrodes.

107. (Previously presented) The apparatus of claim 102 wherein there are two electrodes ( $V_1$ ,  $V_2$ ) in the upper right portion of the vest in the same row in a symmetrical relationship with the sternum of the patient regardless of the size of the patient;

a third electrode ( $V_3$ ) is in either the upper right portion of the vest or in the lower left portion of the vest in a row and column different from the row and columns of the first two electrodes ( $V_1$ ,  $V_2$ ), the positioning of the third electrode ( $V_3$ ) being dependent upon the size of the patient; and

there are three additional electrodes ( $V_4$ ,  $V_5$ ,  $V_6$ ) in the lower left portion of the vest and all of these are in the same horizontal row but in a row different from the rows locating the other electrodes ( $V_1$ ,  $V_2$ ,  $V_3$ ) and in columns different from the other electrodes ( $V_1$ ,  $V_2$ ,  $V_3$ ) and from one another, the positioning of the three additional electrodes ( $V_4$ ,  $V_5$ ,  $V_6$ ) being dependent upon the size of the patient.

108. (Previously presented) The apparatus of claim 92 wherein electrodes ( $V_1$ - $V_6$ ) are disposed in the front of the vest and additional electrodes are disposed in the back of the vest.

109. (Previously presented) The apparatus of claim 92 wherein the electrodes are disposed on the vest in different ones of the first, second and third arrangements.